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User's Manual

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Before operating the monitor, please read this manual thoroughly. This manual should be retained for future reference.

FCC Class B Radio Frequency Interference Statement
WARNING: (FOR FCC CERTIFIED MODELS)

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

HG Declaration

SAFETY: Lamp Disposal

LAMP(S) INSIDE THIS PRODUCT CONTAIN MERCURY AND MUST BE RECYCLED OR DISPOSED OF ACCORDING TO LOCAL, STATE OR FEDERAL LAWS. FOR MORE INFORMATION, CONTACT THE ELECTRONIC INDUSTRIES ALLIANCE AT **WWW.EIAE.ORG**.

NOTICE:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

WARNING:

To prevent fire or shock hazard, do not expose the monitor to rain or moisture. Dangerously high voltages are present inside the monitor. Do not open the cabinet. Refer servicing to qualified personnel only.

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PRECAUTIONS

- Do not use the monitor near water, e.g. near a bathtub, washbowl, kitchen sink, laundry tub, swimming pool or in a wet basement.
- Do not place the monitor on an unstable cart, stand, or table. If the monitor falls, it can injure a person and cause serious damage to the appliance. Use only a cart or stand recommended by the manufacturer or sold with the monitor. If you mount the monitor on a wall or shelf, use a mounting kit approved by the manufacturer and follow the kit instructions.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of the monitor and to protect it from overheating, be sure these openings are not blocked or covered. Do not place the monitor on a bed, sofa, rug, or similar surface. Do not place the monitor near or over a radiator or heat register. Do not place the monitor in a bookcase or cabinet unless proper ventilation is provided.
- The monitor should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- The monitor is equipped with a three-pronged grounded plug, a plug with a third (grounding) pin. This plug will fit only into a grounded power outlet as a safety feature. If your outlet does not accommodate the three-wire plug, have an electrician install the correct outlet, or ground the appliance safely. Do not defeat the safety purpose of the grounded plug.
- Unplug the unit during a lightening storm or when it will not be used for long period of time. This will protect the monitor from damage due to power surges.
- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- Never push any object into the slot on the monitor cabinet. It could short circuit parts causing a fire or electric shock. Never spill liquids on the monitor.
- Do not attempt to service the monitor by yourself; opening or removing covers can expose you to dangerous voltages and other hazards. Please refer all servicing to qualified service personnel.
- To ensure satisfactory operation, use the monitor only with UL listed computers which have appropriate configured receptacles marked between 100 - 240V AC, Min. 5A.
- The wall socket shall be installed near the equipment and shall be easily accessible.

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SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

BEFORE YOU OPERATE THE MONITOR

FEATURES

- 48.1cm (19” Wide) TFT Color LCD Monitor
- Crisp, Clear Display for Windows
- Recommened Resolutions: 1440 X 900 @60Hz
- Ergonomic Design
- Space Saving, Compact Case Design

PACKING LIST

The product package should include the following items:

1. LCD Monitor
3. Owner's Manual
4. Base
5. Power Cord
6. DVI Cord
7. VGA Cable

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INSTALLATION INSTRUCTIONS

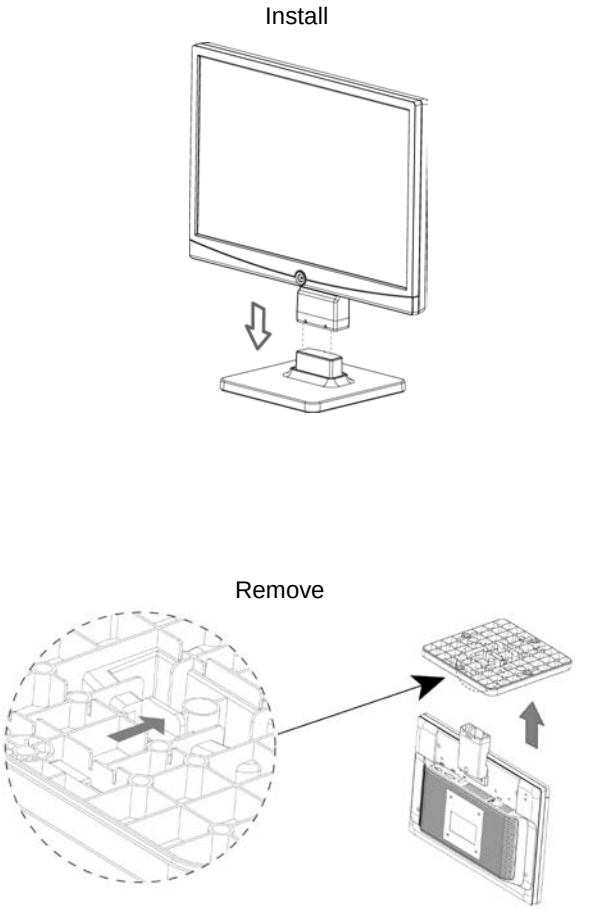

Figure 1 Installing and Removing the Base

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POWER CORD

Power Source:

1. Make sure that the power cord is the correct type required in your area.
2. This LCD monitor has an External universal power supply that allows operation in either 100/120V AC or 220/240V AC voltage area (No user adjustment is required).
3. Connect the AC-power cord into your LCD monitor's AC-power-input. The AC-power cord may be connected to either a wall power outlet or the power outlet socket on your PC, depending on the type of power cord supplied with your LCD monitor.

CONTROLS AND CONNECTORS

POWER CORD

Connecting the D-Sub Cable: Connect one end of the 15-pin VGA cable to the back of the monitor and connect the other end to the computer's D-Sub port.
Connect one end of the 24-pin DVI cable o the back of the monitor and connect the other end to the computer's DVI port.

Connecting the Power Cord: Connect the power cord into your LCD monitor's power input socket, and then plug the other end into a 3-pin AC power outlet. The power cord may be connected to either a wall power outlet or the power outlet socket on your PC.

Caution: If the AC outlet is not grounded (with three holes), install the proper grounding adapter.

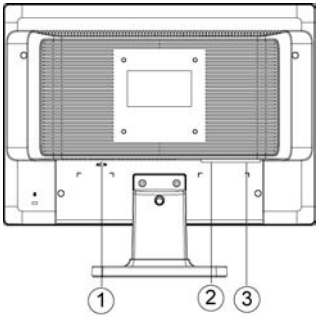

Figure 2 Connecting Cables

1.	AC Power Cord
2	DVI cable
3	D-Sub Cable

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ADJUSTING THE VIEWING ANGLE

- For optimal viewing it is recommended to look at the full face of the monitor, then adjust the monitor's angle to your own preference.
- Hold the stand so you do not topple the monitor when you change the monitor's angle.
- You are able to adjust the monitor's angle from -5° to 20°.

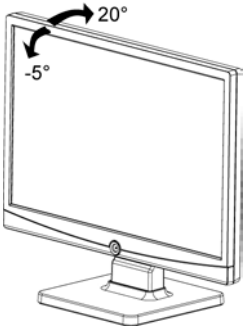

Figure 3

NOTES

- Do not touch the LCD screen when you change the angle. It may cause damage or break the LCD screen.
- Careful attention is required not to catch your fingers or hands when you change the angle.

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OPERATING INSTRUCTIONS

GENERAL INSTRUCTIONS

Press the power button to turn the monitor on or off. The other control buttons are located at front panel of the monitor (See Figure 4). By changing these settings, the picture can be adjusted to your personal preferences.

- The power cord should be connected.
- Connect the video cable from the monitor to the video card.
- Press the power button to turn on the monitor position. The power indicator will light up.

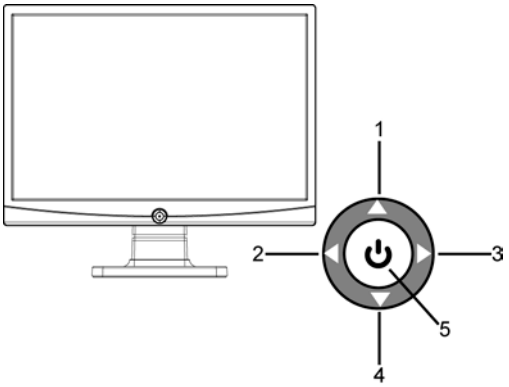

Figure 4 External Control Button

EXTERNAL CONTROLS

1.	Eco Mode /Up
2.	Contrast /Left
3.	DCR/Right
4.	Source(Auto) /Exit
5.	Power / Menu

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FRONT PANEL CONTROL

- **Power / Menu :**
  Press the Menu (Power) button to activate the OSD window. Press left, right, up, down button to navigate through the functions. Once the desired function is highlighted, press the Menu (Power) button to activate sub-menu .
- **Contrast /Left:**
  When there is no OSD , press Contrast (◀) to active Contrast adjustment bar, press (▶)or (◀) to adjust Contrast.

- **DCR/Right:**
  Press DCR key continuously to active or disable DCR function when there is no OSD.
- **Eco Mode:**
  Press the Eco key continuously to select the Eco mode of brightness when there is no OSD (Eco mode hot key may not be available in all models).

- **Power Indicator:**
  Blue－Power On mode
  Orange－Stand by mode

- **Auto configure hot key:**

1. Auto configure hot key: When the OSD is closed, press Auto/Source button continuously about 2 second to do auto configure.

2. Press the Power button continuously about 2 second to turn off the monitor.

- **OSD-Lock Function：**

To lock the OSD, press and hold the Left button while the monitor is off and then press power button to turn the monitor on. To un-lock the OSD - press and hold the Left button while the monitor is off and then press power button to turn the monitor on.

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NOTES

- Do not install the monitor in a location near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, or excessive dust or mechanical vibration or shock.
- Save the original shipping carton and packing materials, as they will come in handy if you ever have to ship your monitor.
- For maximum protection, repackage your monitor as it was originally packed at the factory.
- Please make sure to clean the cabinet regularly with the provided cloth, Any liquid will cauterize the screen.
- Please make sure to clean the cabinet regularly with the provided cloth , you can use soft-cleanser to clean the stain , instead of severe spray cleanser which will cauterize the monitor cabinet. Dont leak liquid into monitor which will result in the damage of chassis or component. Please unplug before cleaning ,and do not scratch the screen with hard things.

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HOW TO ADJUST A SETTING

1. Press the Menu (Power) button to activate the OSD window. Press left, right, up, down button to navigate through the functions. Once the desired function is highlighted, press the Menu (Power) button to activate sub-menu .
2. In sub-menu, Press up, down button to navigate through the functions. Once the desired function is highlighted, press ◀, ▶button to button to change the setting. Press Menu (Power) button to return to superior menu.
3. If you want to adjust any other function, repeat steps 1-2.
4. To exit OSD windows, select “exit” icon on main OSD, then press the Menu (Power) button .
5. Eco Mode hot key (▲) : Press the Eco key continuously to select the Eco mode of brightness when there is no OSD (Eco mode hot key may not be available in all models).
6. Contrast adjustment hot key : When there is no OSD , press Contrast (◀) to active Contrast adjustment bar, press ▶or ◀to adjust Contrast.
7. DCR hot key (▶) : Press DCR key continuously to active or disable DCR function when there is no OSD.
8. Source hot key : When the OSD is closed, press Auto/Source button will be Source hot key function (Only for the models with dual or more inputs) ,Press Source button continuously to select the input source showed in the message bar , press Menu/Enter button to change to the source selected.

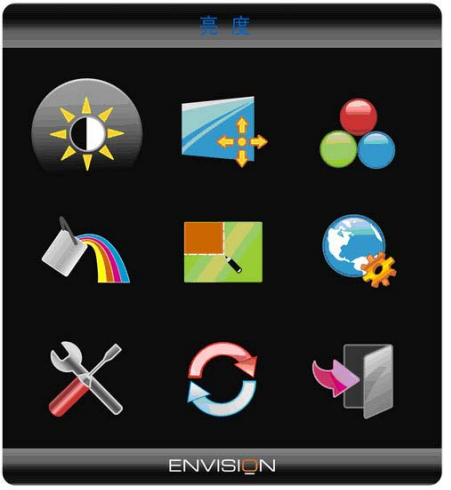

Figure 5 The OSD Message

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ADJUSTING THE PICTURE

Function Control Illustration

Main Menu Item	Main Menu Icon	Sub Menu Item	Sub Menu Icon		Description
Luminance		Brightness	0-100		Backlight Adjustment
		Contrast	0-100		Contrast from Digital-register.
		Eco Mode	Standard		Standard Mode
			Text		Text Mode
			Internet		Internet Mode
			Game		Game Mode
			Movie		Movie Mode
			Sports		Sports Mode
		Gamma	Gamma1		Adjust to Gamma1
			Gamma2		Adjust to Gamma2
			Gamma3		Adjust to Gamma3
		DCR	Off		Disable dynamic contrast ratio
			On		Enable dynamic contrast ratio
Image Setup		Clock	0-100		Adjust picture Clock to reduce Vertical-Line noise.
		Phase	0-100		Adjust Picture Phase to reduce Horizontal-Line noise
		H.Position	0-100		Adjust the horizontal position of the picture.

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		V.Position	0-100	Adjust the verticalposition of the picture.
Color Temp.		Warm	6500K	Recall Warm Color Temperature from EEPROM.
		Normal	7300K	Recall Normal Color Temperature from EEPROM.
		Cool	9300K	Recall Cool Color Temperature from EEPROM.
		sRGB		Recall SRGB Color Temperature from EEPROM.
		User	Red	Red Gain from Digital-register
			Green	Green Gain Digital-register.
			Blue	Blue Gain from Digital-register
Color Boost		Full Enhance	on or off	Disable or Enable Full Enhance Mode
		Nature Skin	on or off	Disable or Enable Nature Skin Mode
		Green Field	on or off	Disable or Enable Green Field Mode
		Sky-blue	on or off	Disable or Enable Sky-blue Mode
		AutoDetect	on or off	Disable or Enable AutoDetect Mode
		Demo	on or off	Disable or Enable Demo
Picture Boost		Frame Size	14-100	Adjust Frame Size
		Brightness	0-100	Adjust Frame Brightness
		Contrast	0-100	Adjust Frame Contrast
		H. position	0-100	Adjust Frame horizontal Position
		V.position	0-100	Adjust Frame vertical Position
		Bright Frame	on or off	Disable or Enable Bright Frame
OSD Setup		H.Position	0-100	Adjust the horizontal position of OSD

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		V.Position	0-100	Adjust the vertical position of OSD
		Timeout	5-120	Adjust the OSD Timeout
		Transparence	0-100	Adjust the transparence of OSD
		Language		Select the OSD language
Extra		Input Select	Auto	Select to Auto Detect input signal
			DVI	Select Digital Sigal Source as Input
			D-SUB	Select Analog Sigal Source as Input
		Auto Config	yes or no	Auto adjust the picture to default
		Image Ratio	wide or 4:3	Select wide or 4:3 format for display
		DDC/CI	yes or no	Turn ON/OFF DDC/CI Support
		Information		Show the information of the main image and sub-image source
Reset		Reset	yes or no	Reset the menu to default
Exit		Exit		Exit the main OSD

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PLUG AND PLAY

PLUG & PLAY DDC2B FEATURE

This monitor is equipped with VESA DDC2B capabilities according to the VESA DDC STANDARD. It allows the monitor to inform the host system of its identity and, depending on the level of DDC used, communicate additional information about its display capabilities.
The DDC2B is a bidirectional data channel based on the I²C protocol. The host can request EDID information over the DDC2B channel.

THIS MONITOR WILL APPEAR TO BE NON-FUNCTIONAL IF THERE IS NO VIDEO INPUT SIGNAL. IN ORDER FOR THIS MONITOR TO OPERATE PROPERLY, THERE MUST BE A VIDEO INPUT SIGNAL.

This monitor meets the Green monitor standards as set by the Video Electronics Standards Association (VESA) and The Swedish Confederation Employees (NUTEK). This feature is designed to conserve electrical energy by reducing power consumption when there is no video-input signal present. When there is no video input signal this monitor, following a time-out period, will automatically switch to an OFF mode. This reduces the monitor's internal power supply consumption. After the video input signal is restored, full power is restored and the display is automatically redrawn. The appearance is similar to a "Screen Saver" feature except the display is completely off. The display is restored by pressing a key on the keyboard, or clicking the mouse.

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TECHNICAL SUPPORT (FAQ)

Problem & Question	Possible Solution
Power LED is not on	*Check if the Power Switch is in the ON position *Power Cord should be connected
No Plug & Play	*Check if the PC system is Plug & Play compatible *Check if the Video Card is Plug & Play compatible *Check if the D-15 plug pin of Video Cable is bent
Picture is fuzzy	*Adjust the Contrast and Brightness Controls.
Picture bounces or a wave pattern is present in the picture	*Move electrical devices that may cause electrical interference.
The power LED is ON (orange) but there's no video or no picture.	*Computer Power Switch should be in the ON position. *Computer Video Card should be snugly seated in its slot *Make sure monitor's video cable is properly connected to the computer. *Inspect monitor's video cable and make sure none of the pins are bent. *Make sure computer is operational by hitting the CAPS LOCK key on the keyboard while observing the CAPS LOCK LED. The LED should either turn ON or OFF after hitting the CAPS LOCK key.
Missing one of the primary colors (RED, GREEN, or BLUE)	*Inspect the monitor's video cable and make sure that none of the pins are bent.
Screen image is not centered or sized properly.	*Adjust pixel frequency (CLOCK) and FOCUS or press hot-key (AUTO)
Picture has color defects (white does not look white)	* Adjust RGB color or select color temperature
Horizontal or vertical disturbances on the screen	* Use win 95/98 shut-down mode Adjust CLOCK and FOCUS or perform hot- key (AUTO-key).

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CLOCK (pixel frequency) controls the number of pixels scanned by one horizontal sweep. If the frequency is not correct, the screen shows vertical stripes and the picture has not correct width.

FOCUS adjusts the phase of the pixel clock signal. With a wrong phase adjustment the picture has horizontal disturbances in light picture.

For FOCUS and CLOCK adjustment use “dot-pattern” or win 95/98 shut-down mode pattern.

ERROR MESSAGE & POSSIBLE SOLUTION

CABLE NOT CONNECTED :

1. Check that the signal-cable is properly connected , If the connector is loose, tighten the connector’s screws.
2. Check the signal -cable connection pins for damage.

INPUT NOT SUPPORT :

Your computer has been set to unsuitable display mode ,set the computer to display mode given in the following table

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APPENDIX

SPECIFICATIONS

LCD Panel	Driving system	TFT Color LCD
	Size	481 mm diagoanl
	Pixel pitch	0.2835mm(H) × 0.2835mm(V)
Input	Video	R,G,B Analog Interface
		Digital
	Separate Sync.	H/V TTL
	H-Frequency	30kHz – 83kHz
	V-Frequency	56Hz-75Hz
Dot Clock		135MHz
Max. Resolution		1440X900@60Hz
Plug & Play		VESA DDC2B CI
Power Consumption	ON Mode	＜37W
	OFF Mode	＜2W
Input Connector		D-Sub 15pin
		DVI-D 24pin
Input Video Signal		Analog:0.7Vp-p(standard), 75 OHM, Positive
		Digital signal
Maximum Screen Size		Horizontal :408.24mm Vertical :255.15mm
Power Source		AC100~240V,47~63Hz
Environmental Considerations		Operating Temp: 0°C to 40°C Storage Temp: -20°C to 60°C Operating Humidity : 15% to 90%
Dimensions		358x384x210 (W×H×D)mm
Weight (N. W.)		3.7kg

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External Controls:	Switch	● Eco Mode /Up ● Contrast /Left ● DCR/Right ● Source(Auto) /Exit ● Power / Menu
	Functions	● Luminance ● Image Setup ● Color Temp. ● Color Boost ● Picture Boost ● OSD Setup ● Extra ● Reset ● Exit
Power Consumption (Maximum)		37Watts
Regulatory Compliance		CE,CB,RoHS,EPA

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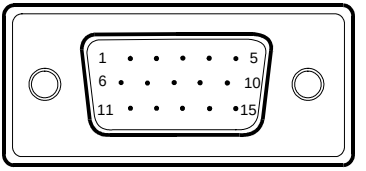
Preset Display Modes

STAND	RESOLUTION	HORIZONTAL FREQUENCY(KHz)	VERTICAL FREQUENCY(Hz)
DOS-MODE	720 × 400	31.47	70.0
VGA	640 × 480	31.47	60.0
	640 × 480	37.50	75.0
SVGA	800 × 600	37.879	60.0
	800 × 600	46.875	75.0
XGA	1024 × 768	48.363	60.0
	1024 × 768	56.476	70.0
	1024 × 768	60.021	75.0
SXGA	1280 × 1024	64.00	60.0
	1280 × 1024	80.00	75.0
WXGA	1440 × 900	55.935	59.8

CONNECTOR PIN ASSIGNMENT



15 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	Red	9.	+5V
2.	Green	10.	Detect Cable
3.	Blue	11.	Ground
4.	N.C.	12.	DDC-Serial Data
5.	Detect Cable	13.	H-Sync
6.	R-Ground	14.	V-Sync
7.	G-Ground	15.	DDC-Serial Clock
8.	B-Ground		

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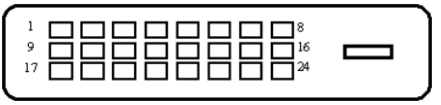

24 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	TMDS Data 2-	13.	TMDS Data 3+/N.C.
2.	TMDS Data 2+	14.	+5V Power
3.	TMDS Data 2/4 Shield	15.	GND(return for +5V hsync.vsync)
4.	TMDS Data 4-/N.C.	16.	Hot Plug Detect
5.	TMDS Data 4+/N.C.	17.	TMDS Data 0-
6.	DDC Clock	18.	TMDS Data 0+
7.	DDC Data	19.	TMDS Data 0/5 Shield
8.	Analogue Vertical Sync /N.C.	20.	TMDS Data 5-/N.C.
9.	TMDS Data 1-	21.	TMDS Data 5+/N.C.
10.	TMDS Data 1+	22.	TMDS Clock Shield
11.	TMDS Data 1/3 Shield	23.	TMDS Clock +
12.	TMDS Data 3-/N.C.	24.	TMDS Clock -

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